VSS 100

Video Sync Separator

FEATURES

- **Separates TTL sync signal from composite video, S-video, component video, RGsB, or SCART - RGB with composite video signals**
- **Input: Composite video on a BNC with loop-through**
- **Output: Composite sync on a BNC**
- **450 MHz (-3 dB) video bandwidth**
- **Enables DSVP™ - Digital Sync Validation Processing verification**
- **BNC input and output connectors**
- **Input loop-through**
- **Power LED indicator**
- **Compact enclosure**
- **External universal power supply included**, part # 70-055-01

DESCRIPTION

The Extron **VSS 100** Video Sync Separator is for systems that use video formats with embedded sync, in particular with the SCART connector found in Europe. Sources such as DVD players with RGB and composite video output on a SCART connector can now be used with RGB switchers like the Extron System 7SC. Simply use the RGB output of the DVD player and composite sync output from the VSS 100. The VSS 100 also extracts the sync signal from RGsB, component video, S-video, or composite video inputs. It then outputs the composite sync signal, at TTL levels, on a separate signal line. The original video signal is looped through unchanged.

Systems can take advantage of Extron technologies that depend on a separate sync input such as the DSVP™ - Digital Sync Validation Processing feature on the Extron CrossPoint 450 Plus matrix switchers. Exclusive to Extron, DSVP confirms that input sources are active by scanning all sync inputs for active signals. DSVP provides instantaneous frequency feedback for composite sync or separate horizontal and vertical sync signals via the switcher's RS-232 and RS-422 or Ethernet port.

The VSS 100 fits behind a rack-mounted Extron switcher. For easy integration into the system, it includes a 6 inch male-to-male BNC cable. The sync separator has an external, international power supply that can drive up to four VSS 100s.

SPECIFICATIONS

VIDEO

Gain	Unity
Bandwidth	6 MHz (-3 dB)

VIDEO INPUT

Number / signal type	1 Gs (green and sync from RGsB), Y (luma signal from component video or S-video), or composite video
Connectors	1 BNC female
Nominal level	1 Vp-p
Minimum / maximum levels	Analog: 0.4 V to 2.0 Vp-p with no offset
Impedance	75 ohms
Horizontal frequency	15.6 kHz to 17.75 kHz
Vertical frequency	50 Hz to 60 Hz

VIDEO OUTPUT

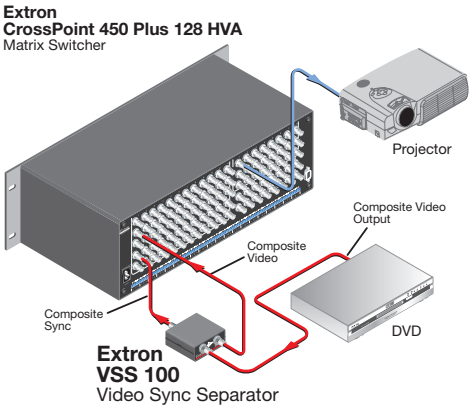
Number / signal type	1 loop-through Gs (green and sync from RGsB), Y (luma signal from component video or S-video), or composite video and 1 composite sync output (see sync section)
Connectors	1 BNC female
Nominal level	1 Vp-p
Minimum / maximum levels	0.4 V to 2.0 Vp-p with no offset, follows input
Impedance	75 ohms
Return loss	-38 dB @ 5 MHz

SYNC

Input type	Gs (green and sync from RGsB), Y (luma signal from component video or S-video), or composite video
Output type	1 loop-through Gs (green and sync from RGsB), Y (luma signal from component video or S-video), or composite video 1 composite sync output on 1 BNC female connector
Standards	NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level	0.3 Vp-p (sync portion only)
Output level	TTL: 5.0 Vp-p, unterminated
Input impedance	75 ohms
Output impedance	75 ohms
Max. propagation delay	50 ns
Max. rise / Fall time	2.5 ns
Polarity	Negative

GENERAL

External power supply	100 VAC to 240 VAC, 50/60 Hz, external, universal; to 12 VDC, 1.0 A, regulated
Power input requirements	12 VDC, 0.25 A
Rack mount	No
Enclosure type	Plastic
Enclosure dimensions	1.0" H x 2.3" W x 3.6" D 2.5 cm H x 5.8 cm W x 9.1 cm D (Depth excludes connectors.)
Product / Shipping weight	0.5 lbs (0.2 kg) / 2 lbs (1 kg)



MODEL	VERSION DESCRIPTION	PART #
VSS 100	Video Sync Separator	60-462-01

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